

Lashing Calculation Report

Lashing Calculator

April 3, 2025

1 Input Parameters

1.1 Load Specifications

Parameter	Value
Length (X)	3.0 m
Width (Y)	23.0 m
Height (Z)	2.7 m
Mass	160.0 tonnes

1.2 Environmental Conditions

Parameter	Value
Slope	5.0°
Wind Force	Beaufort 6
Friction Coefficient	0.2

1.3 Lashing Configurations

Lashing	α	β	Breaking Strength	Side
1	20.0°	40.0°	7.0 Tonnes	F
2	20.0°	40.0°	7.0 Tonnes	F
3	50.0°	50.0°	7.0 Tonnes	F

2 Calculation Results

2.1 Transverse Sliding Analysis

Transverse sliding!! Check lashing!
You need 10 more lashing on rear

2.2 Longitudinal Sliding Analysis

Longitudinal sliding occurs.

You need 21 more lashing on front or back

3 Lashing Configuration Diagram

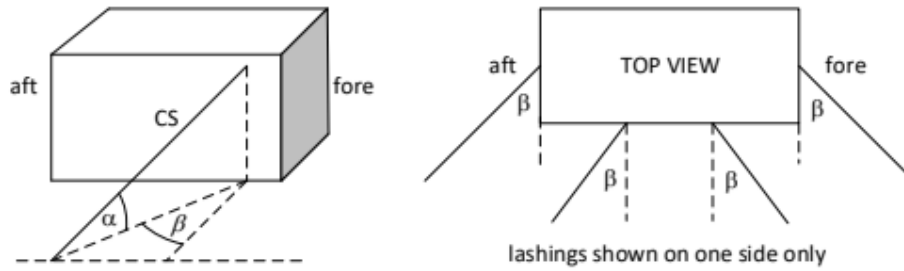


Figure 1: Lashing Configuration